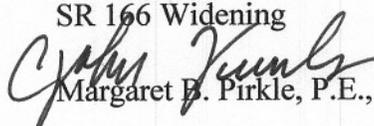


D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 721770, Douglas-Fulton Counties **OFFICE** Preconstruction
STP-186-1(22)
SR 166 Widening **DATE** September 26, 2005

FROM  Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

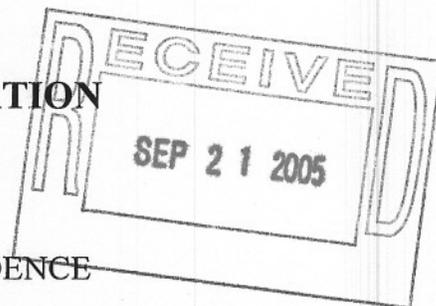
MBP/cj

Attachment

DISTRIBUTION:

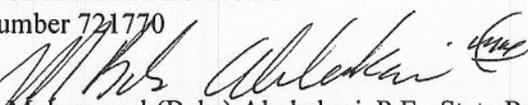
Brian Summers
Harvey Keepler
Ken Thompson
Jamie Simpson
Michael Henry
Keith Golden
Joe Palladi (file copy)
Babs Abubakari
Bryant Poole
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA



INTERDEPARTMENTAL CORRESPONDENCE

FILE STP-186-1(22), Douglas/Fulton Counties OFFICE Consultant Design
SR 166 Widening from Old Lower River Road
To Fulton Industrial Boulevard
P. I. Number 721770 DATE July 15, 2005

FROM:  Mohammed (Babs) Abubakari, P.E., State Program Delivery and
Consultant Design Engineer

TO: Margaret B. Pirkle, P.E., Assistant Director of Preconstruction

SUBJECT **Revised Project Concept Report**

Attached is the original copy of the revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

The typical section as described in the approved concept report consists of two 12-foot travel lanes in each direction divided by a 20-foot raised median. The concept will be revised to a typical section consisting of two 12-foot travel lanes in each direction divided by a 24-foot raised median. Also, the bridge configuration as described in the approved concept calls for a new bridge to be constructed parallel to the existing bridge over the Chattahoochee River. The proposed bridge configuration is to be revised to accommodate the 4-lane roadway section with 24-foot raised median. The existing bridge will be widened to accommodate this typical section.

If you have any questions, please contact Joe wheeler at (404)657-9759.

The revised concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement Program (TIP) and the State Transportation Improvement Program (STIP).

DATE 9/20/05


State Transportation Planning Administrator

CC:

Brian Summers
Harvey Keepler
Keith Golden
Jamie Simpson
Joseph Palladi
Bryant Poole
Paul V. Liles, Jr.

REVISED PROJECT CONCEPT REPORT

STP-186-1(22) DOUGLAS/FULTON COUNTIES SR 166 WIDENING

Need and Purpose: Land use in the proposed project area is primarily rural with future land use changing to more residential and some commercial development. The need for improving SR 166 has been recognized at the local level as a major connecting link between the City of Douglasville and the Fulton Industrial Boulevard area. Traffic is expected to increase due to growth in population and housing in the area. Future traffic on this section of SR 166 is projected to grow from 16,600 ADT to over 29,000 ADT by the year 2031. Construction of the project would upgrade the roadway to handle the traffic and increase safety as well as efficiency.

Project location: Project STP-186-1(22) begins in Douglas County at Mile Post 19.11 on SR 166 east of the intersection with Old Lower River Road and continues to the Douglas/Fulton County line at Mile Post 20.80. The project then crosses the Chattahoochee River into Fulton County at Mile Post 0.00 and ends just east of the intersection of SR 166 and Fulton Industrial Boulevard at Mile Post 1.37. The total project length is 3.06 miles.

Description of the approved concept: The proposed project would widen and reconstruct SR 166 from Old Lower River Road in Douglas County to SR 70 in Fulton County. The existing 2 and 3 lane rural roadway would be reconstructed to a 4 lane roadway divided by a 20-foot wide raised median with 10 foot wide shoulders (4 foot paved) left and right. Proposed widening will shift from side to side to reduce impacts to adjacent properties.

PDP Classification:

Full Oversight (), Exempt (X), SF (), Other ()

Functional Classification: Urban Minor Arterial

U. S. Route Number(s): None

State Route Number(s): 166

Traffic (AADT) as shown in the approved concept:

Current Year: 12500 (1993)

Design Year: 25000 (2019)

Proposed features to be revised:

Typical Section: The typical section described in the original concept is to be revised to meet current GDOT policy. The original typical section consists of two 12-foot travel lanes in each direction divided by a 20-foot wide raised median with 10-foot rural shoulders (4-foot paved, 6-foot grassed).

Bridge Configuration: The original concept calls for a new bridge to be constructed parallel to the existing bridge over the Chattahoochee River. The proposed bridge configuration is to be revised to accommodate the 4-lane roadway section with 24-foot raised median. The existing bridge will be widened to accommodate this typical section.

Describe the revised feature(s) to be approved:

Proposed Typical Section: Four 12-foot travel lanes in each direction with a 24-foot raised median and 10-foot (6.5-foot paved, 3.5-foot grassed) rural shoulders.

Proposed Bridge Configuration: The existing 48-foot bridge will be widened 48 feet to accommodate four 12-foot travel lanes and a 24-foot raised median.

Updated traffic data (AADT):

Current Year: 14500 (2004)

Design Year: 29350 (2031)

Programmed/Schedule:

P.E. 1992

R/W: Long Range

Construction: Long Range

Revised cost estimates:

1. Construction cost including inflation and E&C = \$12,143,230
2. Right-of-way = \$3,565,000 *
3. Utilities = \$230,000 *

* Revised cost estimates for these items will be requested from the appropriate office.

Is the project located in a Non-attainment area? X YesNo.

The proposed concept calls for four thru lanes with a 24-foot raised median. The project begins on SR 166 near SR 92/Old Lower River Road in Douglas County and ends at Fulton Industrial Boulevard in Fulton County. The total project length is 3.06 miles, and the opening year is 2011.

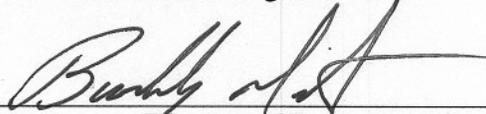
The conforming plan's model description matches the proposed concept termini. The plan calls for four through lanes with a total project length of 2.91 miles and an opening year of 2011.

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map
2. Typical Sections (letter size)
3. Cost Estimate
4. Conforming plan's network schematics showing thru lanes

Concur:



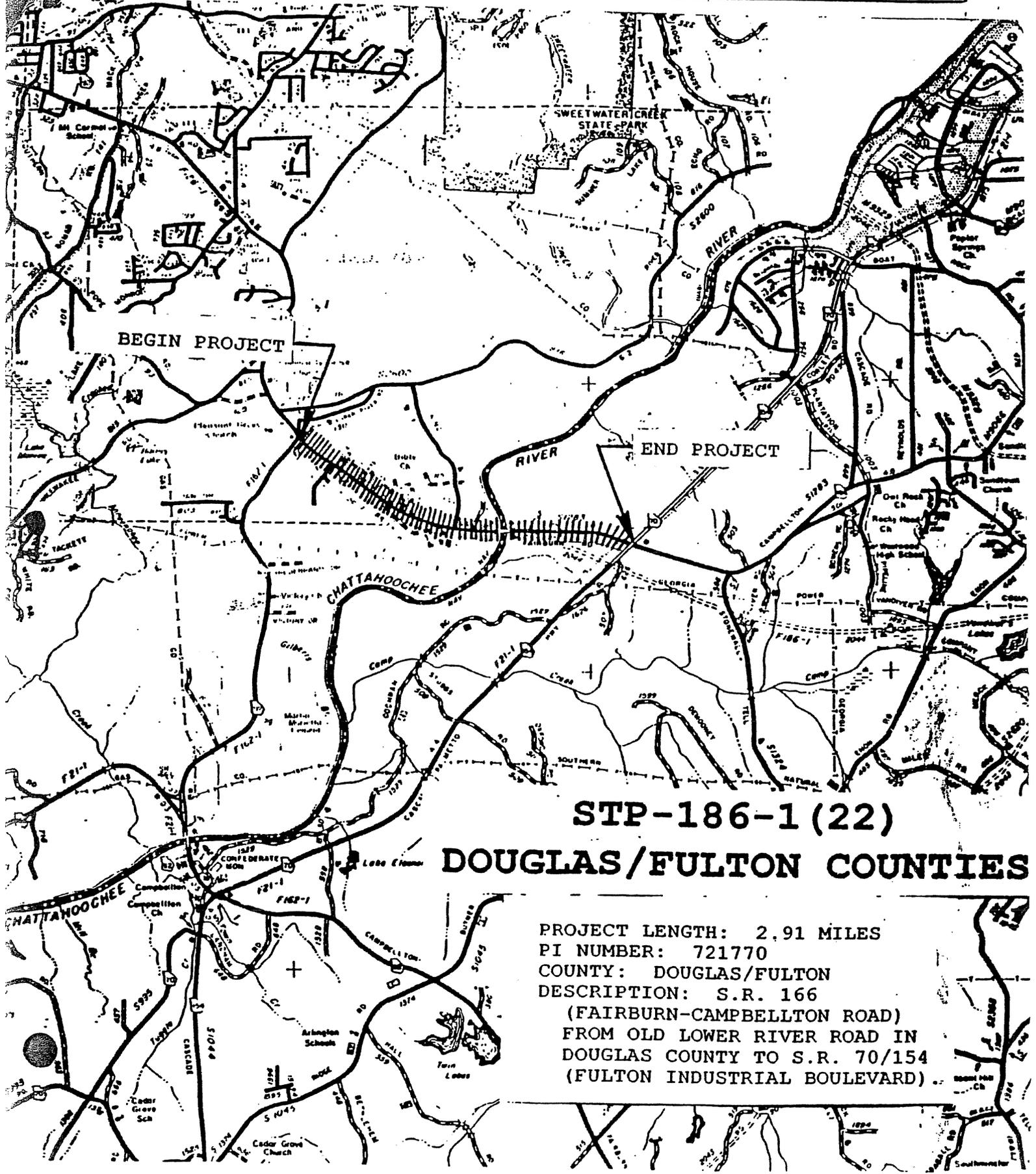
Director of Preconstruction

Approve:



Chief Engineer

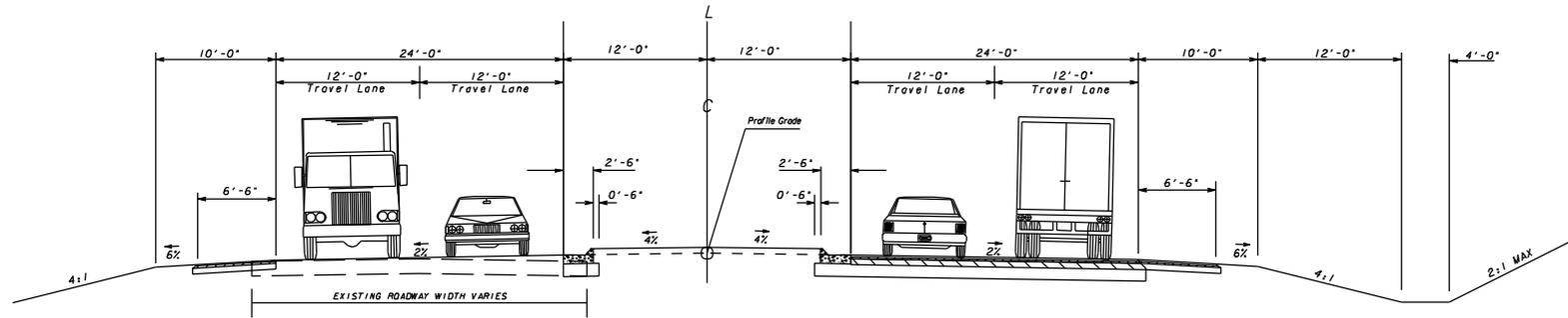
PROJECT MAP - Project No. : STP-186-1(22)



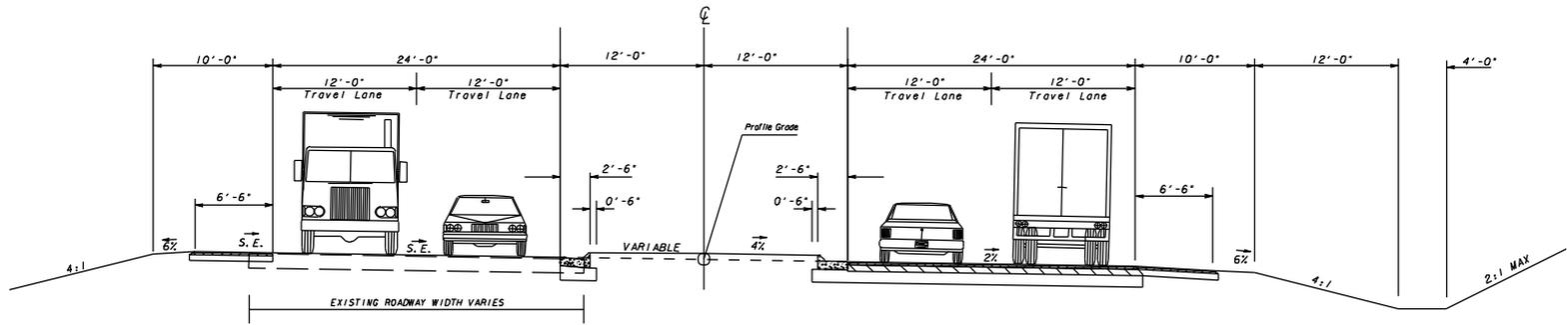
STP-186-1(22)
DOUGLAS/FULTON COUNTIES

PROJECT LENGTH: 2.91 MILES
PI NUMBER: 721770
COUNTY: DOUGLAS/FULTON
DESCRIPTION: S.R. 166
(FAIRBURN-CAMPBELLTON ROAD)
FROM OLD LOWER RIVER ROAD IN
DOUGLAS COUNTY TO S.R. 70/154
(FULTON INDUSTRIAL BOULEVARD)

DATE/TIME###	TIME###	SPRF#	ADDS#	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
BUSER#		##PENTABLE##					



TANGENT SECTION



SUPERELEVATION SECTION

**Kimley-Horn
and Associates, Inc.**
Engineering, Planning, and Environmental Consultants
Suite 600, 3189 Holcomb Bridge Road
Norcross, Georgia 30071

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CONSULTANT DESIGN
TYPICAL SECTIONS

DRAWING No.
5-01

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: STP-186-1(22)

COUNTY:

Douglas/Fulton

DATE: July 5, 2005

ESTIMATED LETTING DATE:

PREPARED BY: Kimley-Horn and Associates

PROJECT LENGTH:

3.06 MILES

()PROGRAMMING PROCESS (X)CONCEPT DEVELOPMENT ()DURING PROJECT DEV.

PROJECT COST					
A. RIGHT-OF-WAY					
1. PROPERTY (LAND & EASEMENT)					\$3,565,000
2. DISPLACEMENTS; (None)					
3. OTHER COST (ADM./COST, INFLATION)					
SUBTOTAL:A					\$3,565,000
B. REIMBURSABLE UTILITIES:					
1. RAILROAD					
2. TRANSMISSION LINES					
3. SERVICES					\$230,000
SUBTOTAL:B					\$230,000
C. CONSTRUCTION					
1. MAJOR STRUCTURES					
a. BOX CULVERTS					
	1) BAR REINF STEEL	12585 LB	@	\$0.60	\$7,551
	2) CLASS A CONC	141 CY	@	\$475	\$66,975
	3) FOUND BACKFILL MAT'L	5000 CY	@	\$35	\$175,000
b. BRIDGES					
	1) BRIDGE WIDENING				
		25920 SF	@	\$110	\$2,851,200
SUBTOTAL:C-1					\$3,100,726
2. GRADING AND DRAINAGE					
a. EARTHWORK					
	1) BORROW EXCAV	0 CY	@	\$5	\$0
	2) UNCLASS EXCAV	225000 CY	@	\$3	\$675,000
b. DRAINAGE					
1) CROSS DRAINS					
	24" Pipe	3200 LF	@	\$30	\$96,000
	24" FES	64 EA	@	\$425	\$27,200
2) SIDE DRAINS					
	18" Pipe	3600 LF	@	\$20	\$72,000
	18" SES	240 EA	@	\$480	\$115,200
3) LONGITUDINAL SYSTEMS					
	Catch Basins	50 EA	@	\$1,500	\$75,000
	18" Pipe	3750 LF	@	\$26	\$97,500
	18" FES	50 EA	@	\$390	\$19,500
SUBTOTAL:C-2					\$1,177,400
3. BASE AND PAVING					
a. AGGREGATE BASE					\$1,025,726
b. ASPHALT PAVING					
	Surface	7418 TN	@	\$42	\$311,573
	Binder	9598 TN	@	\$37	\$355,121
	Base	36338 TN	@	\$37	\$1,344,511
c. CONCRETE PAVING					
d. OTHER (LEVELING, TACK)					
	Leveing	147 TN	@	\$36	\$5,280
	Tack	12402 GAL	@	\$1	\$12,402
SUBTOTAL:C-3					\$3,054,613
4. LUMP ITEMS					
a. GRASSING					\$72,000
b. CLEARING AND GRUBBING					\$360,000
c. LANDSCAPING					\$0
d. EROSION CONTROL					
	Silt Fence	13000 LF	@	\$3	\$39,000
	Erosion Mat	45000 SY	@	\$2	\$90,000

Baled Straw	8000 LF	@	\$2	\$16,000
Ty 3 Silt Gates	32 EA	@	\$350	\$11,200
Sediment Basins	14 EA	@	\$7,000	\$98,000
e. TRAFFIC CONTROL	LS			\$150,000
			SUBTOTAL:C-4	\$836,200
5. MISCELLANEOUS				
a. LIGHTING				
b. SIGNING – MARKING				
Solid Traff Stripe, 5 IN, White	65000 LF	@	\$0.30	\$19,500
Solid Traff Stripe, 5 IN, Yellow	15000 LF	@	\$0.30	\$4,500
Skip Traff Stripe, 5 IN, White	32000 GLF	@	\$0.20	\$6,400
Higway Signs, TP 6 Sheeting	1000 SF	@	\$18	\$18,000
Galv Steel Posts, TP 7	1200 LF	@	\$8	\$9,600
Raised Pvmt Markers	400 EA	@	\$3	\$1,200
c. GUARDRAIL				
W Beam	5000 LF	@	\$15	\$75,000
T Beam	84 LF	@	\$30	\$2,520
Ty 12 Ancors	10 EA	@	\$1,300	\$13,000
Ty 1 Anchors	10 EA	@	\$440	\$4,400
d. CURB AND GUTTER				
Curb and Gutter TP 7	32000 LF	@	\$22	\$704,000
			SUBTOTAL:C-5	\$858,120
6. SPECIAL FEATURES				
1) FIELD ENGINEERS OFFICE TY 3				
				\$55,000
			SUBTOTAL:C-6	\$55,000

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		\$3,565,000
B. REIMBURSABLE UTILITIES		\$230,000
C. CONSTRUCTION		
1. MAJOR STRUCTURES		\$3,100,726
2. GRADING AND DRAINAGE		\$1,177,400
3. BASE AND PAVING		\$3,054,613
4. LUMP ITEMS		\$836,200
5. MISCELLANEOUS		\$858,120
6. SPECIAL FEATURES		\$55,000
SUBTOTAL CONSTRUCTION COST		\$9,082,059
INFLATION (5% PER YEAR)		\$1,957,241
NUMBER OF YEARS	4	
E. & C. (10%)		\$1,103,930
TOTAL CONSTRUCTION COST		\$12,143,230
GRAND TOTAL PROJECT COST		\$15,938,230

